

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/14887

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01H71/12 H02B13/035

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01H H02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 36928 A (GEN ELECTRIC) 22 July 1999 (1999-07-22) the whole document	1-5,7
X	WO 01 57979 A (SEIDLER STAHL GUENTER ;THIEDE INGO (DE); BACH MICHAEL (DE); SCHMID) 9 August 2001 (2001-08-09) abstract; figures	1-6
X	WO 95 27297 A (ABB POWER T & D CO) 12 October 1995 (1995-10-12) abstract; claims 1-7; figures page 9, paragraph 2	1-5,8
X	US 4 281 359 A (BAYER ERIC W ET AL) 28 July 1981 (1981-07-28) abstract; figures	1-5
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

14 May 2003

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22/05/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 08725 A (BAUMGAERTL ULRICH ;SIEMENS AG (DE)) 6 March 1997 (1997-03-06) abstract; figures	1-5
X	WO 01 78099 A (JANKOWIAK MICHAEL ;MIZENER JEFFERY C (DE); MUSIOL ARON ERNST (DE);) 18 October 2001 (2001-10-18) abstract; figures	1-5

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/EP 02/14887

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9936928	A	22-07-1999	US 5933306 A EP 0966749 A1 JP 2001515653 T WO 9936928 A1	03-08-1999 29-12-1999 18-09-2001 22-07-1999
WO 0157979	A	09-08-2001	DE 10004833 A1 CN 1395755 T WO 0157979 A1 EP 1252693 A1 US 2003001702 A1	02-08-2001 05-02-2003 09-08-2001 30-10-2002 02-01-2003
WO 9527297	A	12-10-1995	US 5585611 A AU 2199995 A WO 9527297 A1	17-12-1996 23-10-1995 12-10-1995
US 4281359	A	28-07-1981	CA 1147446 A1 DE 3049365 A1 FR 2478367 A1 GB 2071915 A ,B GB 2091505 A ,B IT 1134905 B JP 56130048 A	31-05-1983 24-09-1981 18-09-1981 23-09-1981 28-07-1982 20-08-1986 12-10-1981
WO 9708725	A	06-03-1997	WO 9708725 A1 DE 59601351 D1 EP 0847587 A1 JP 11512221 T US 6034859 A	06-03-1997 01-04-1999 17-06-1998 19-10-1999 07-03-2000
WO 0178099	A	18-10-2001	DE 10019092 A1 WO 0178099 A1 EP 1273022 A1	25-10-2001 18-10-2001 08-01-2003